International application No.

	INTERNATIONAL SEARCH REPORT		חכית /.דם מ	004/004696	
	. CLASSIFICATION OF SUBJECT MATTER		7047 004030		
Int.Cl <sup>7</sup>	C07K16/28, C12N15/62, A61K39/ 7/00, 7/04, 7/06, 11/06, 15/0 27/02, 29/00, 35/00, 35/02, 3 emational Patent Classification (IPC) or to both national	8, 17/00, 1 7/02, 43/00	7/06, 21/04,	10, 5/14, 25/00,	
B. FIELDS SEA	RCHED				
Minimum docum Int . Cl <sup>7</sup>	nentation searched (classification system followed by classification syste	395, A61P1/ 8, 17/00, 1 7/02, 43/00	04, 1/16, 3/ 7/06, 21/04,	25/00,	
Documentation s	earched other than minimum documentation to the exten	t that such documen	ts are included in the	fields searched	
	•			- <u> </u>	
MEDLINI	pase consulted during the international search (name of die (STN), BIOSIS (STN), WPIDS (STN); rot/PIR/GeneSeq, Genbank/EMBL/DI	, JICST FIL	E(JOIS),	ms used)	
C. DOCUMEN	IS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the rele	vant passages	Relevant to claim No.	
X Y	WO 01/97858 A2 (IDEC Pharmaceuticals Corp.), 1,2,4-13 27 December, 2001 (27.12.01), 3 & JP 2004-512262 A & EP 1299128 A2 & US 2002/0039557 A1		• •		
X	WO 02/22212 A2 (IDEC Pharmaceuticals Corp.), 1,2,4-13 21 March, 2002 (21.03.02), 3 & JP 2004-508420 A & EP 1328320 A2 & US 2002/0058029 A1				
X Y	WO 01/74388 A1 (IDEC Pharmaceuticals Corp.), 11 October, 2001 (11.10.01), & JP 2004-500412 A & EP 1283722 A1 & US 2002/0012665 A1		1,2,4-13 3		
× Further do	cuments are listed in the continuation of Box C.	See patent fa	mily annex.		
"A" document d	egories of cited documents: lefining the general state of the art which is not considered ticular relevance	date and not in		mational filing date or priority ation but cited to understand envention	
"E" earlier appl	ication or patent but published on or after the international	"X" document of proconsidered no	articular relevance; the over	laimed invention cannot be lered to involve an inventive	
filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"Y" document of p considered to combined with being obvious	step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the actual completion of the international search 06 July, 2004 (06.07.04)		Date of mailing of 27 July	the international sear, 2004 (27.1	rch report 07.04)	

Authorized officer

Telephone No.

Name and mailing address of the ISA/ Japanese Patent Office

International application No.
PCT/JP2004/004696

Category*	ategory* Citation of document, with indication, where appropriate, of the relevant passages		
X Y	WO 02/04021 A1 (IDEC Pharmaceuticals Corp.), 17 January, 2002 (17.01.02), & JP 2004-502742 A & EP 1305045 A1 & US 2002/0028178 A1	1,2,4-13	
X Y	JP 2001-518930 A (Immunomedics, Inc.), 16 October, 2001 (16.10.01), & WO 98/42378 A1 & EP 969866 A1 & US 2002/0071807 A1	1,4,6-11 2,3,5,12,13	
X X	JP 2002-544173 A (Immunomedics, Inc.), 24 December, 2002 (24.12.02), & WO 00/67795 A1 & EP 1178826 A1	1,4,6-11 2,3,5,12,13	
X Y	JP 10-505231 A (Immunomedics, Inc.), 26 May, 1998 (26.05.98), & WO 96/04925 A1 & EP 771208 A1 & US 5789554 A	1,4,6-11 2,3,5,12,13	
Y	HOLLIGER P. et al., "Diabodies": small bivalent and bispecific antibody fragments., Proc.Natl. Acad.Sci.USA., 1993, No.90, Vol.14, p.6444-8	2,3,5,12,13	
P, X	WO 03/33654 A2 (ROSSI Edmund), 24 April, 2003 (24.04.03), & US 2003/0148409 A1	1-13	

International application No.
PCT/JP2004/004696

Box No	). I	Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sheet)
1. Wi	th regarention,	rd to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed the international search was carried out on the basis of:
a.	type o	f material
	_E	a sequence listing
	$\Box$	table(s) related to the sequence listing
		more(s) retained to the enquestion and any
Ъ.	forma	t of material
		in written format
	×	in computer readable form
c.	time o	of filing/furnishing
		contained in the international application as filed
	×	filed together with the international application in computer readable form
İ	. 🗆	furnished subsequently to this Authority for the purposes of search
2. ×	In a	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed
	or f app	urnished, the required statements that the information in the subsequent or additional copies is identical to that in the lication as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Ad	ditional	comments:
)		
		·
Ì		
Ì		
{ ·		
}		
1		
1		
1		
}		
1		
1		
1		
		·

International application No. PCT/JP2004/004696

Box No.	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This intereasons:	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2. 🗀	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No.	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:  It is recognized that degraded antibodies recognizing CD22, i.e., the matter common to claims 1 to 13, have been publicly known (see, if needed, WO98/42378). Thus, the above common matter cannot be considered as a special technical feature. Such being the case, the inventions as set forth in claims 1 to 13 cannot be regarded as a group so linked as to form a single general inventive concept.  Thus, the inventions as set forth in claims 1 to 13 are classified into the following 4 groups of inventions: (1) a degraded antibody having the amino acid sequence represented by SEQ ID NO:1, (2) a degraded antibody having the amino acid sequence represented by SEQ ID NO:3, (continued to extra sheet)			
I searchab	As all required additional search fees were timely paid by the applicant, this international search report covers all e		
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.		
3. Covers	As only some of the required additional search fees were timely paid by the applicant, this international search report		
4. 🔀 The	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  parts relating to SEQ ID NO:1 in claims 1 to 13		
Remark	The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.		

International application No.
PCT/JP2004/004696

Continuation of Box No.III of continuation of first sheet(2)
(3) a degraded antibody having CDR of SEQ ID NO:5 and the amino acid sequence represented by SEQ ID NO:7, and (4) a degraded antibody having CDR of SEQ ID NO:9 and the amino acid sequence represented by SEQ ID NO:11.

Form PCT/ISA/210 (extra sheet) (January 2004)